

Figure 4-1: Expression of dentate granule cell markers discovered in the study in Allen Brain Atlas mouse brain in situ hybridization database. The first gene is Prox1, a known marker of dentate granule cells. The intensity is color-coded to range from blue (low expression intensity), through green (medium intensity) to red (high intensity). All images except Ogn is taken from the sagittal view. Ogn is taken from the coronal view.

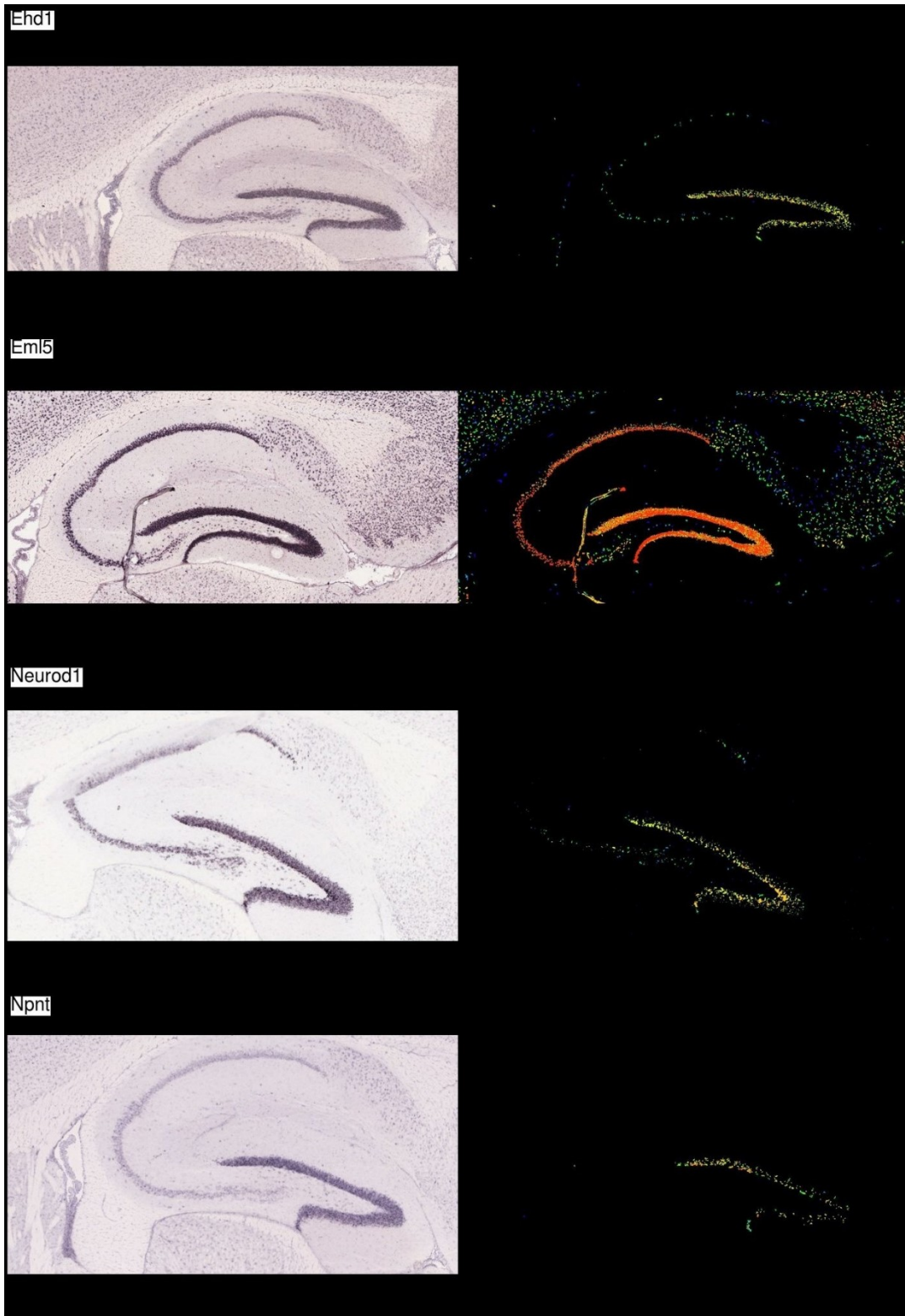


Figure 4-1 continued.

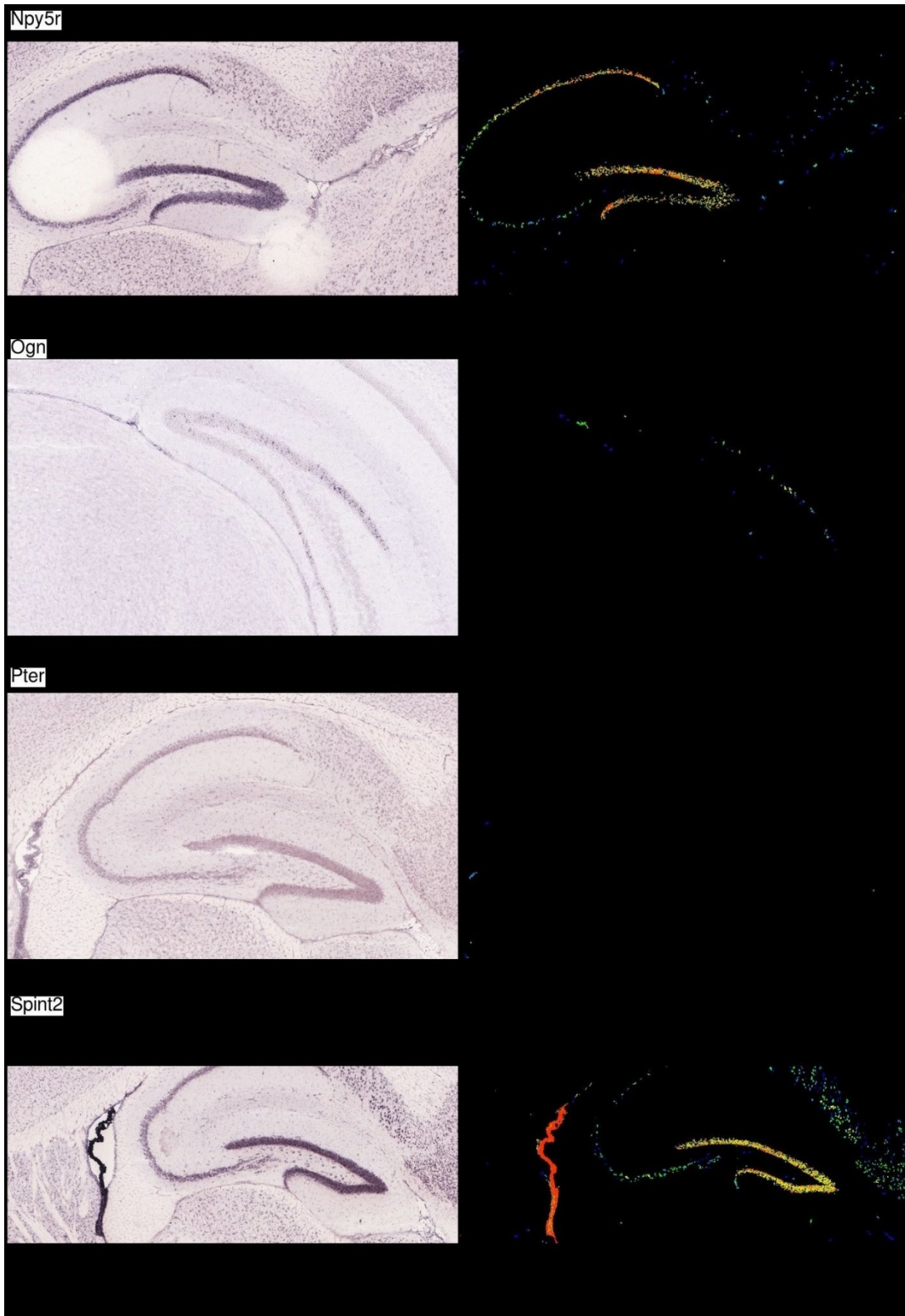


Figure 4-1 continued.

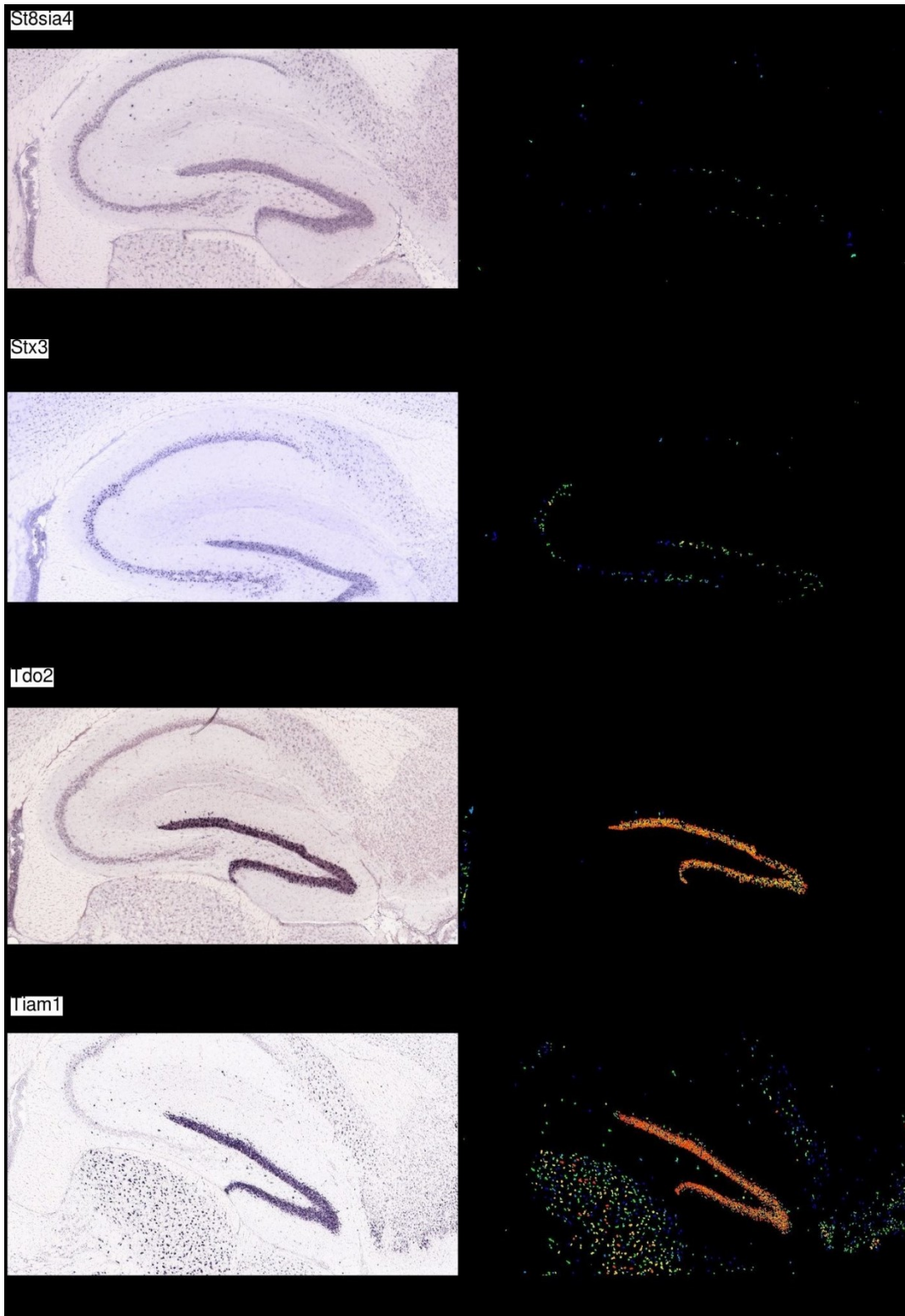


Figure 4-1 continued.

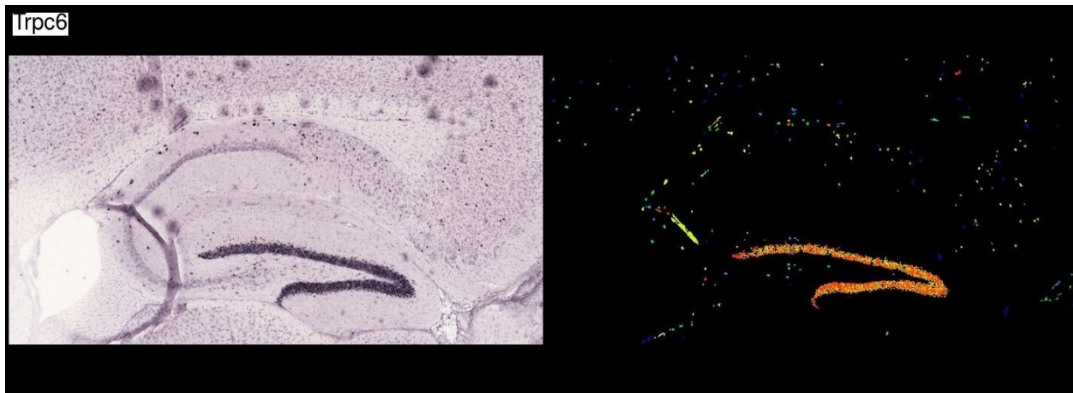


Figure 4-1 continued.

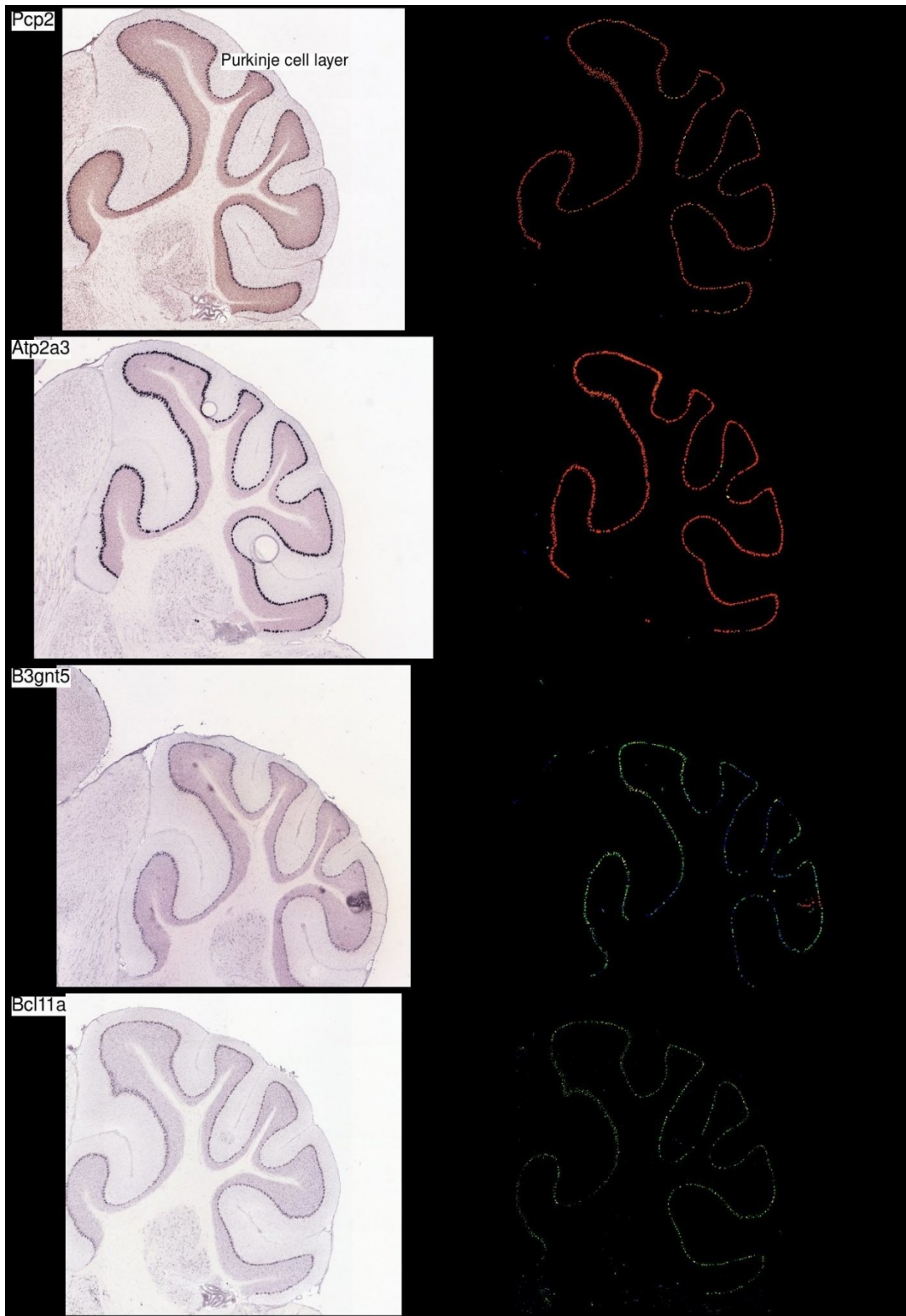


Figure 4-2: Expression of Purkinje markers discovered in the study in Allen Brain Atlas mouse brain in situ hybridization database. The first gene is Pcp2, a known marker of Purkinje cells. The intensity is color-coded to range from blue (low expression intensity), through green (medium intensity) to red (high intensity).} All images are taken from the sagittal view.

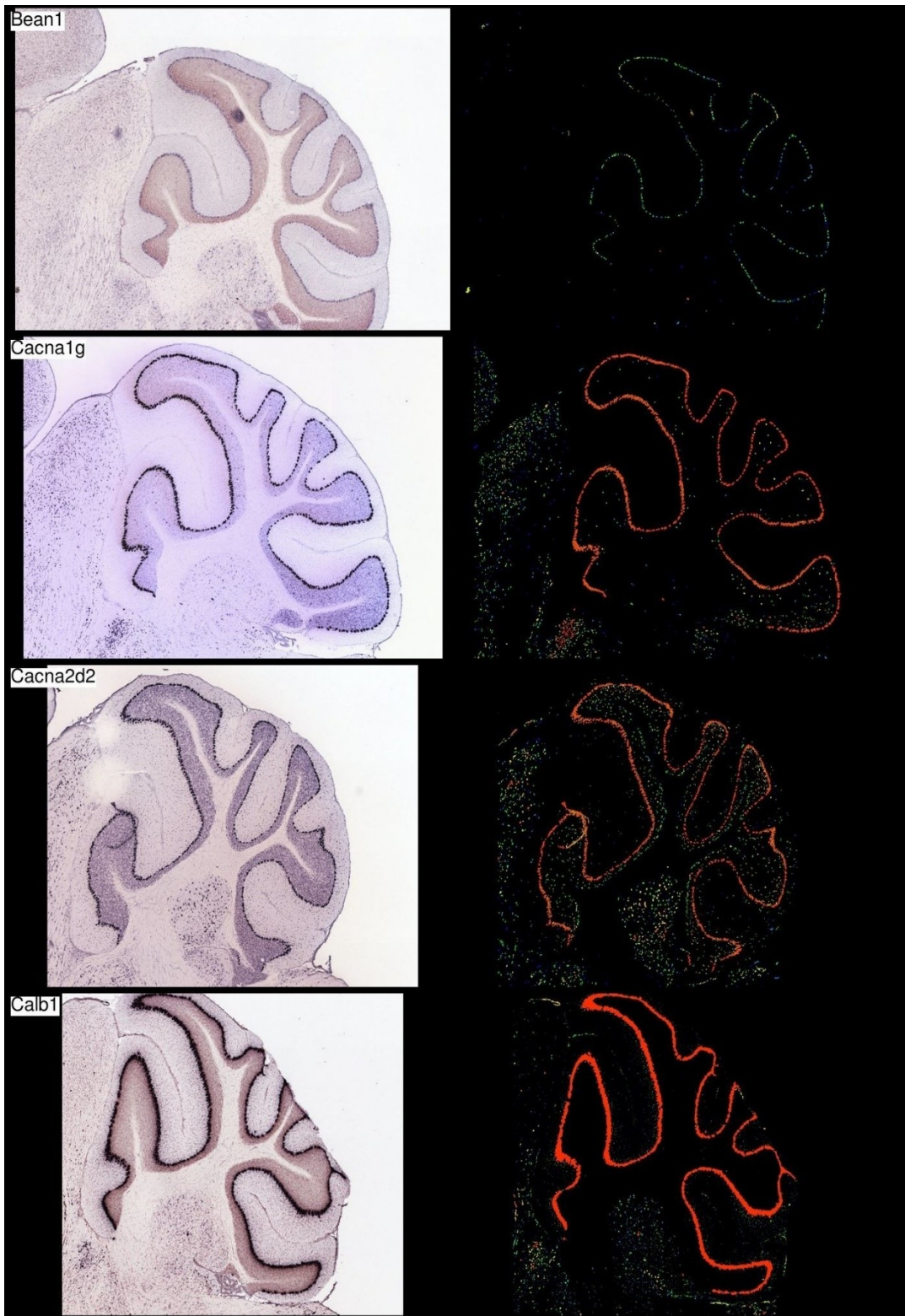


Figure 4-2 continued.

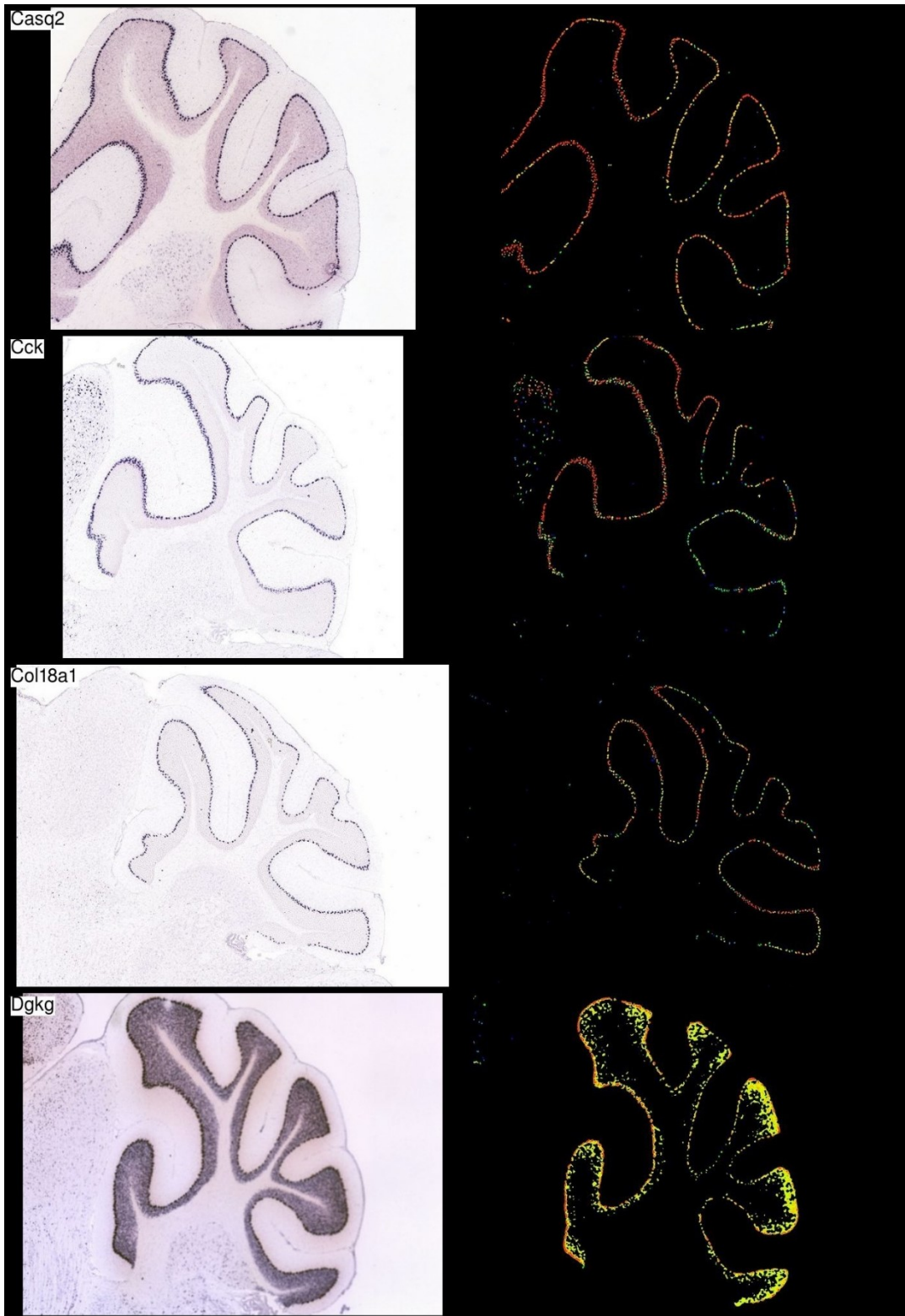


Figure 4-2 continued.

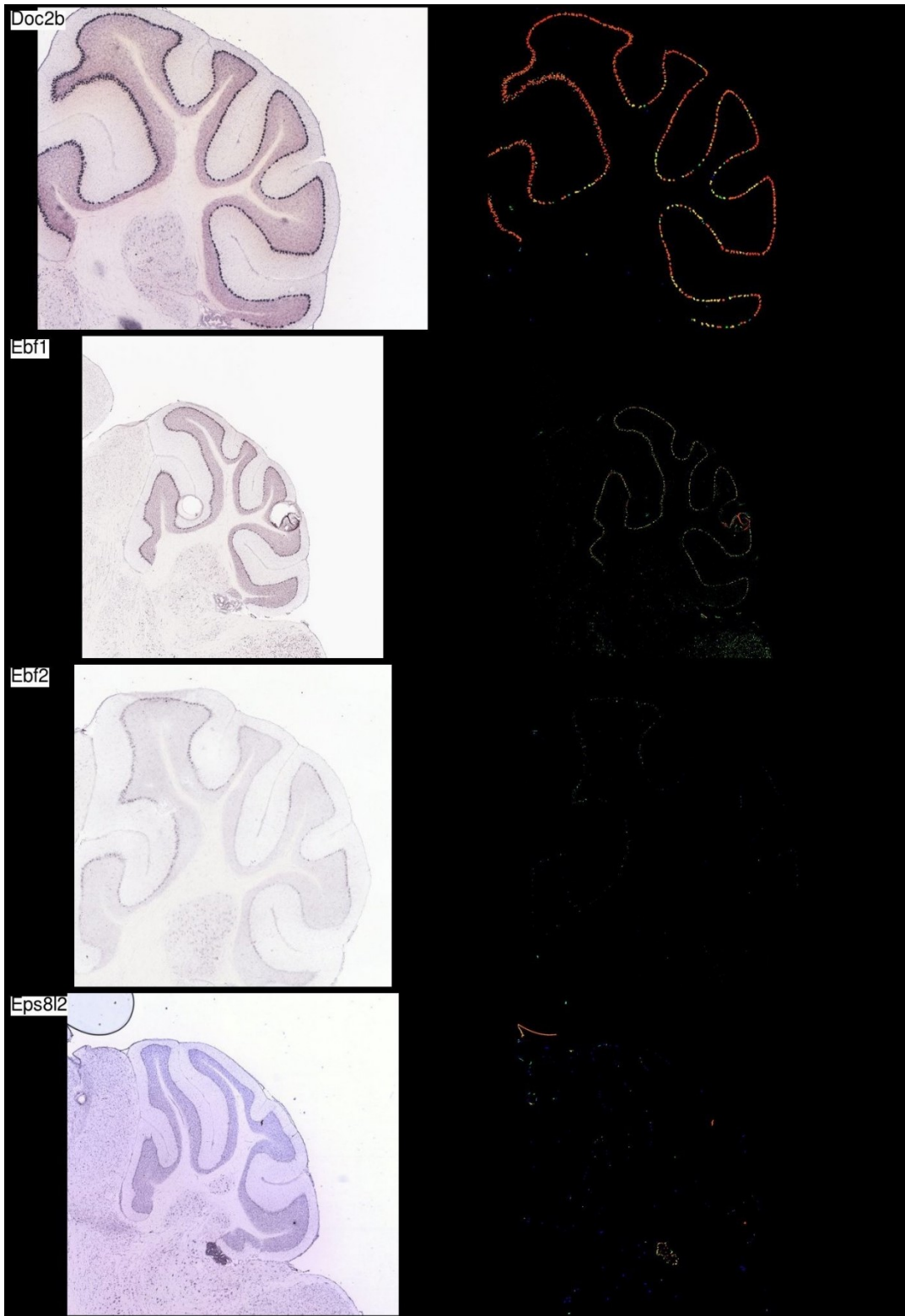


Figure 4-2 continued.

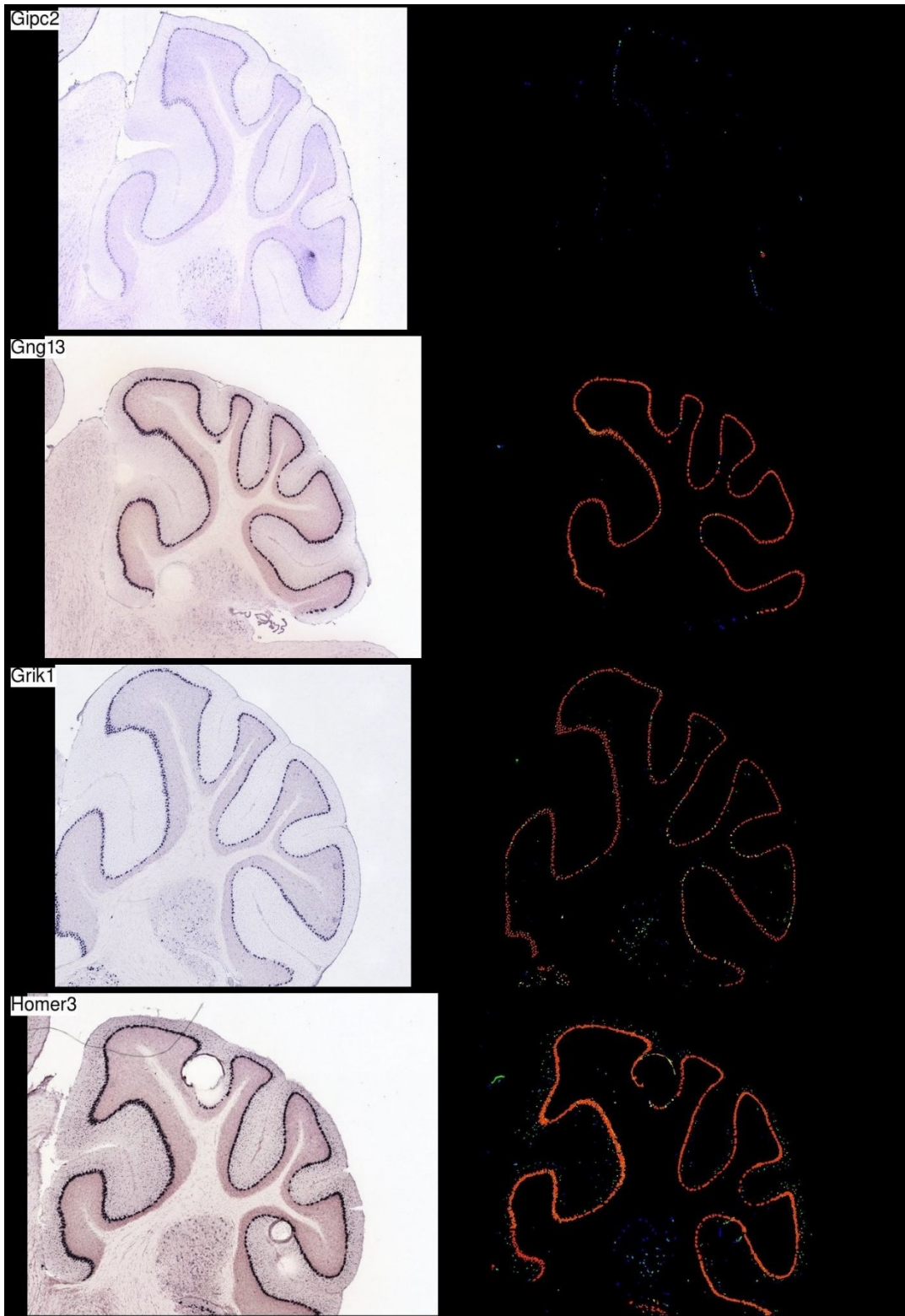


Figure 4-2 continued.

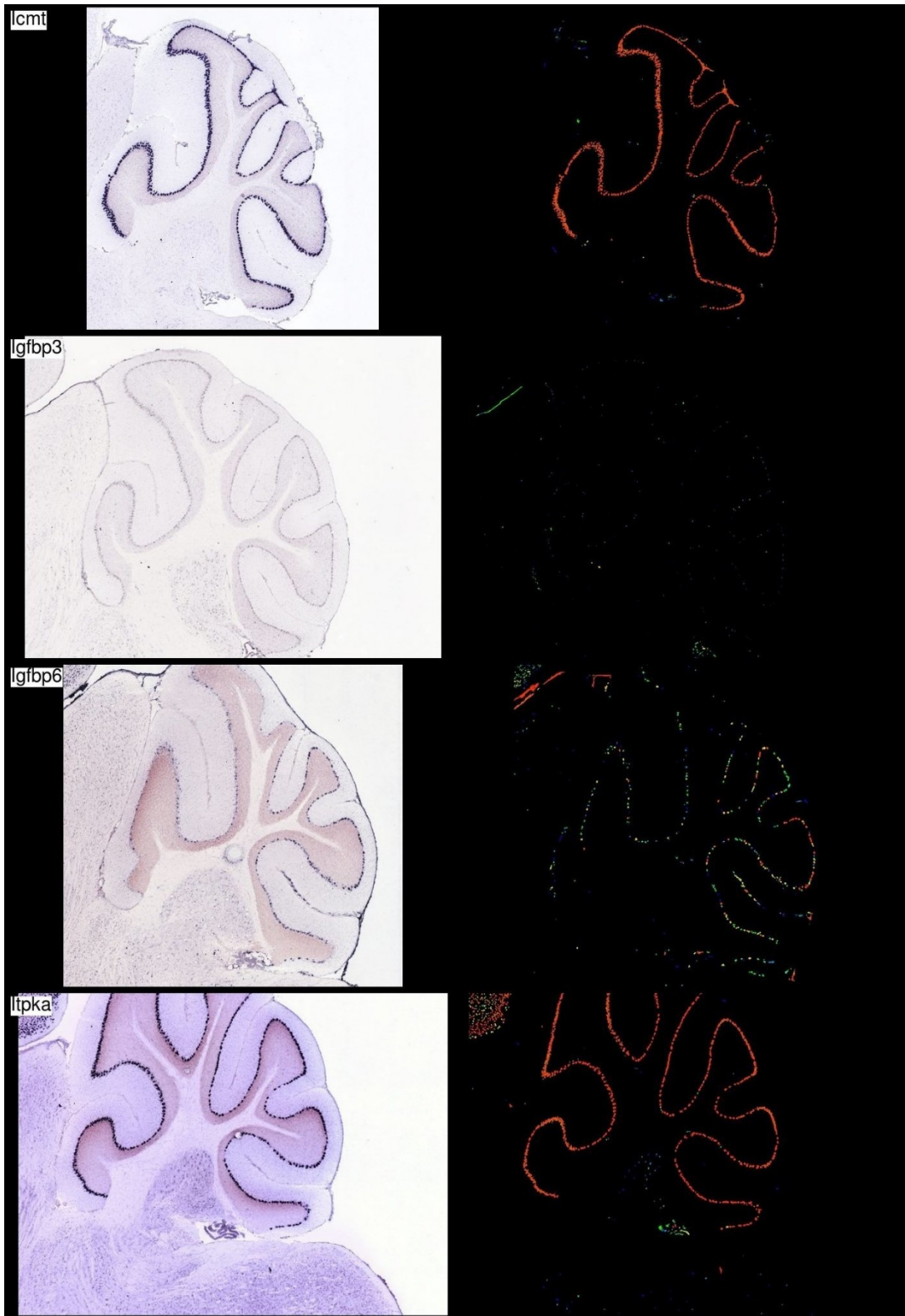


Figure 4-2 continued.

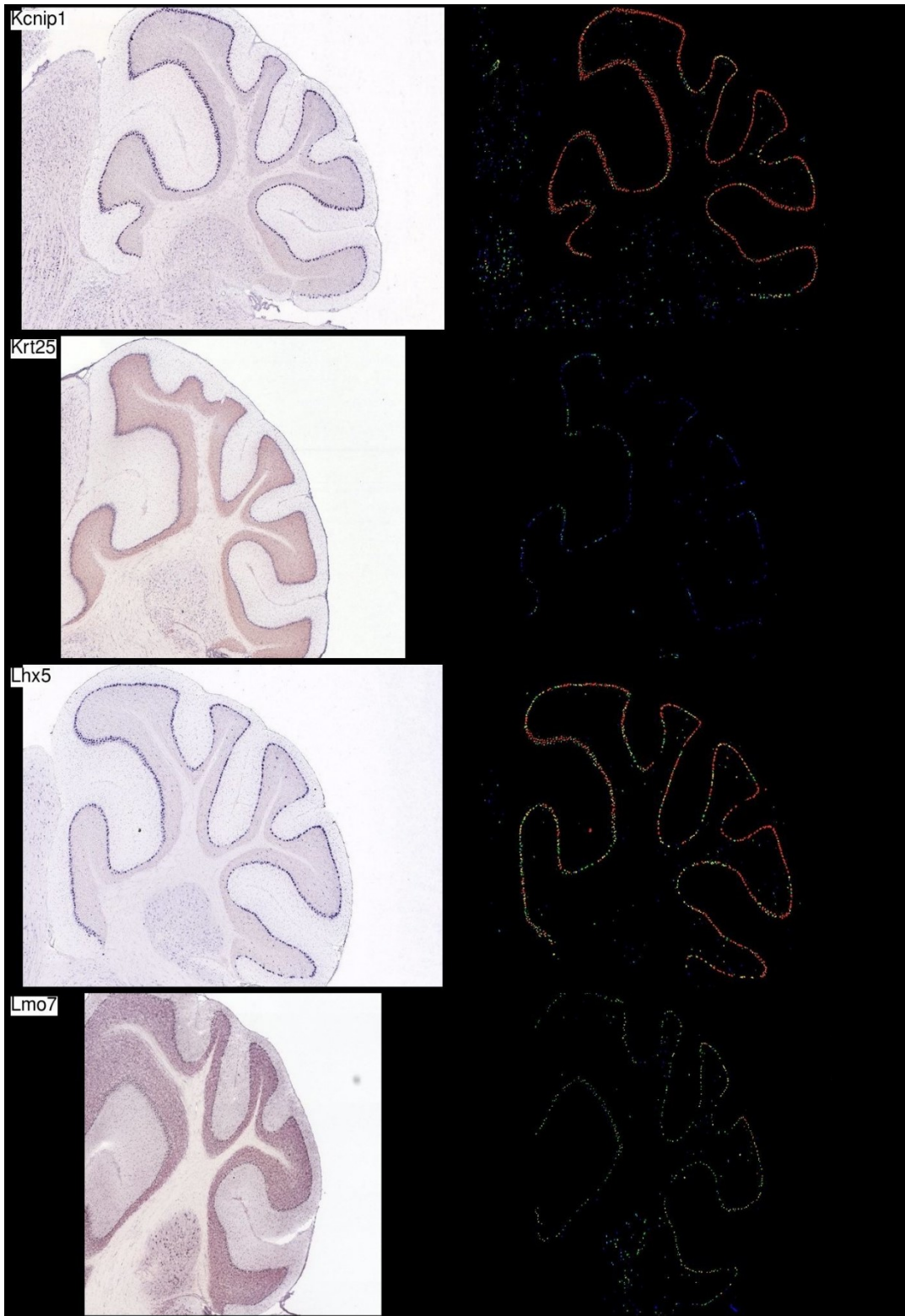


Figure 4-2 continued.

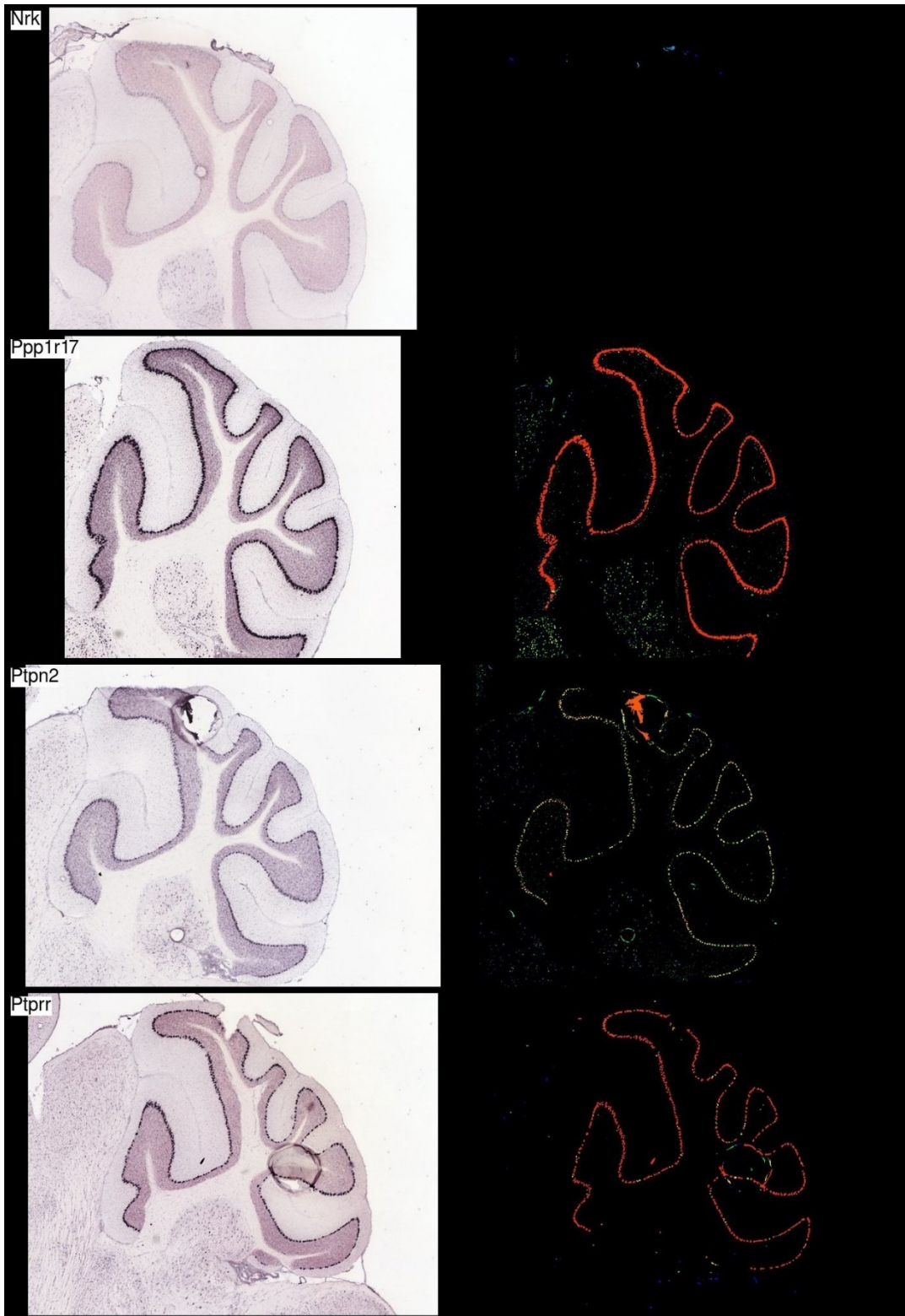


Figure 4-2 continued.

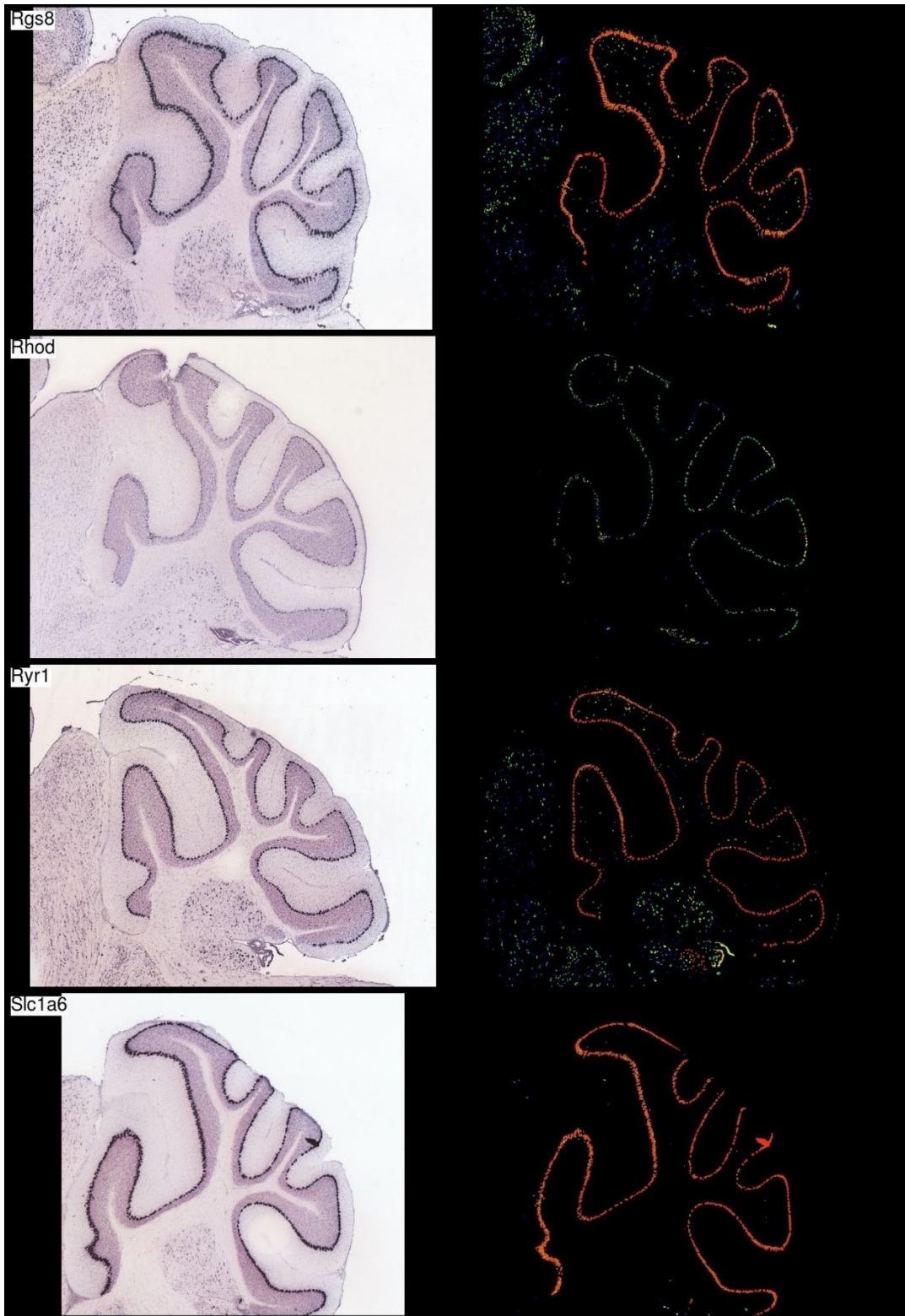


Figure 4-2 continued.

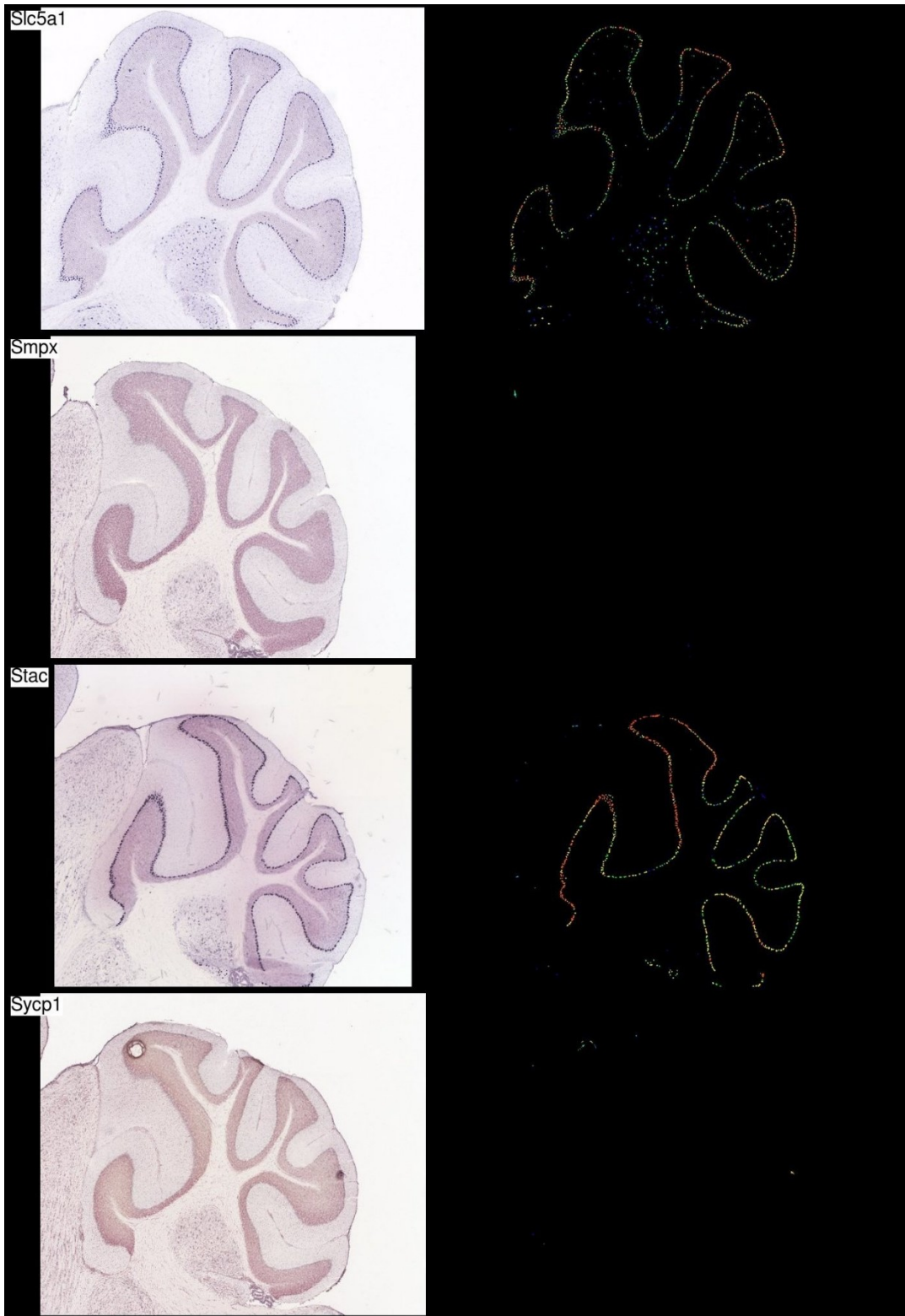


Figure 4-2 continued.

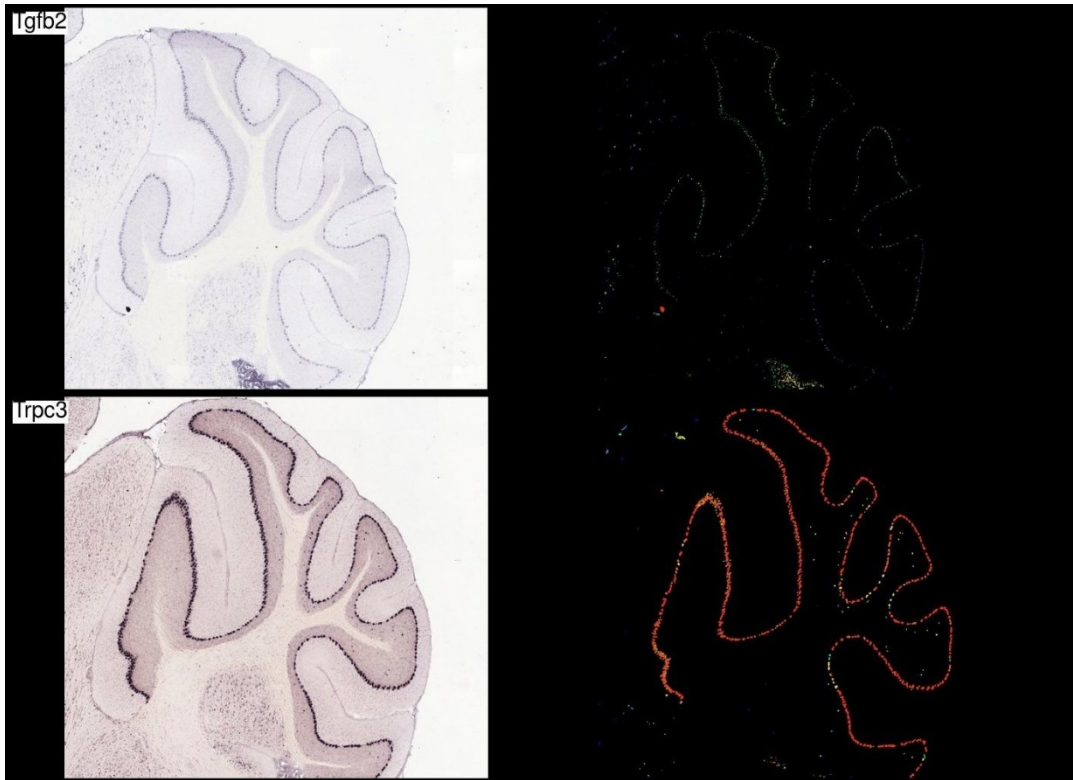


Figure 4-2 continued.

Gene	Status	Notes
Cdhr1	Ok	
Dsg2	Ok	
Dsp	Ok	
Ehd1	Ok	
Eml5	Not specific	
Neurod1	Ok	
Npnt	Ok	
Npy5r	Ok	
Ogn	Ok	Low expression
Pter	No signal	Not expressed anywhere else in the rest of the brain
Spint2	Ok	
St8sia4	Ok	Low expression
Stx3	Ok	
Tdo2	Ok	
Tiam1	Ok	
Trpc6	Ok	

Figure 4-3: Validation status of dentate granule cell markers.

Gene	Status	Notes
Atp2a3	Ok	
B3gnt5	Ok	
Bcl11a	Ok	2nd probeset
Bean1	Ok	
Cacna1g	Ok	
Cacna2d2	Not specific	
Calb1	Ok	
Casq2	Ok	
Cck	Ok	
Col18a1	Ok	
Dgkg	Ok	
Doc2b	Ok	
Ebf1	Ok	
Ebf2	Ok	Low signal
Eps8l2	Inconclusive	
Fam174b	Not in ABA	
Gipc2	Ok	Low signal
Gng13	Ok	
Grik1	Ok	
Homer3	Ok	
Icmt	Ok	
Igfbp3	Ok	Low signal
Igfbp6	Ok	
Itpka	Ok	
Kcnip1	Ok	
Krt25	Ok	
Lhx5	Ok	
Lmo7	Ok	
Nrk	Ok	Low signal
Ppp1r17	Ok	
Ptpn2	Ok	
Ptprr	Ok	
Rgs8	Ok	
Rhod	Ok	
Ryr1	Ok	
Slc1a6	Ok	
Slc5a1	Ok	
Smpx	No signal	Not expressed anywhere else in the rest of the brain
Stac	Ok	
Sycp1	No signal	Not expressed anywhere else in the rest of the brain
Tgfb2	Ok	
Trpc3	Ok	
Tuba8	Not in ABA	

Figure 4-4: Validation status of Purkinje cell markers.